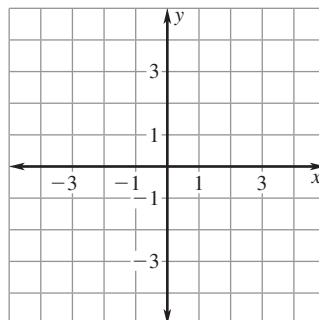


**CHAPTER 4**  
**Chapter Test B**  
*For use after Chapter 4*

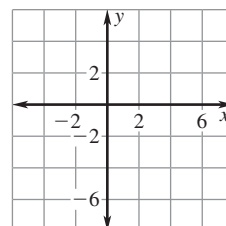
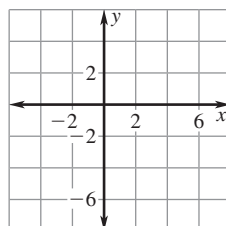
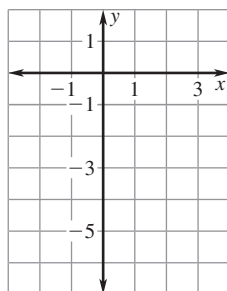
**Plot the point in the coordinate plane. Describe the location of the point.**

1.  $A(-1, 3)$
2.  $B(4, 0)$
3.  $C(2, -2)$
4.  $D(-1, -1)$



**Graph the equation.**

5.  $3x - y = 5$
6.  $3y - 2x = -3$
7.  $y = -3$

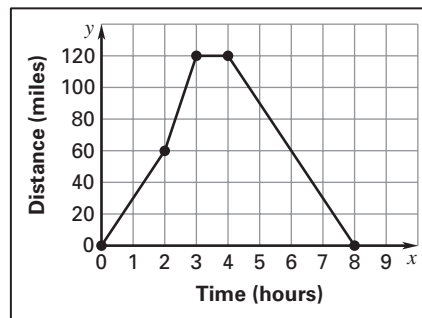


**Find the  $x$ -intercept and the  $y$ -intercept of the graph of the equation.**

8.  $6x - 4y = 12$
9.  $-2x + 5y = -10$
10.  $y = \frac{1}{2}x - 2$

**In Exercises 11–16, use the following information.**

The graph shows the distance of a car traveling along a straight road for 8 hours. A positive velocity is motion to the right, and a negative velocity is motion to the left.



11. Determine the rates of change in distance with respect to time.
12. Between what two times is the car not moving?
13. Between what two times is the car traveling to the right?
14. Between what two times is the car traveling to the left?
15. Between what two times is the car traveling the fastest?
16. What does the  $x$ -intercept represent in this situation?

**Answers**

1. See left.
2. See left.
3. See left.
4. See left.
5. See left.
6. See left.
7. See left.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

CHAPTER  
**4**

## Chapter Test B

*continued*

*For use after Chapter 4*

**Identify the slope and y-intercept of the line with the given equation.**

17.  $y = 8x - 3$       18.  $2x + 9y = 9$       19.  $-3x - 4y = -16$

**Determine whether the equation represents direct variation. If so, identify the constant of variation.**

20.  $y = -x$       21.  $4x - 3y = 0$       22.  $2x + y = 4$

**Complete the table for the function.**

23.  $f(x) = 6 + x$

<b><math>x</math></b>	-1		0
<b><math>f(x)</math></b>		2	

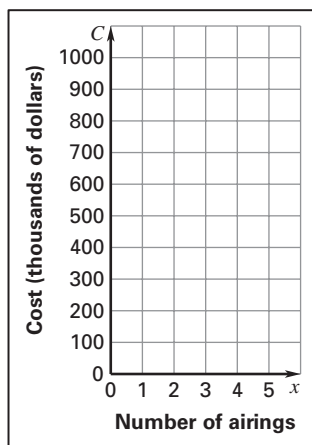
24.  $f(x) = -\frac{7}{2}x$

<b><math>x</math></b>	0	2	
<b><math>f(x)</math></b>			

**In Exercises 25–27, use the following information.**

An advertising company charges \$150,000 each time a 30-second commercial is aired. The cost (in thousands of dollars) to produce the commercial and air it  $x$  times is given by the function  $C(x) = 150x + 300$ .

25. Graph the function.



26. Identify the domain and the range of the function.
27. How many times could a station air the commercial if the advertising company wants to spend \$900,000?

**Answers**

17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_
21. \_\_\_\_\_
22. \_\_\_\_\_
23. See left.
24. See left.
25. See left.
26. \_\_\_\_\_
27. \_\_\_\_\_